

**Name:** Williamson, Christina

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### Education

- 2015 PhD in Earth Science, Goethe University of Frankfurt am Main,  
1.0 magna cum laude, Thesis advisor: Joachim Curtius  
Thesis: “*Inversion and Analysis Techniques for Understanding Aerosol  
Nucleation and Growth with Diethylene-Glycol Condensation Particle Counters*”
- 2011 MPhys, Oxford University (Exeter College)

### Professional Appointments

- 2018 - present Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado (CU)  
Boulder and US National Oceanic and Atmospheric Administration (NOAA) Chemical Science  
Laboratory (CSL), Research Scientist II
- 2015 - 2018 CIRES, CU Boulder and NOAA CSL, Research Scientist I

### Fellowships, Grants and Awards

- 2018-2020 US National Science Foundation, Asian summer monsoon Chemical and Climate Impacts Project  
(ACCLIP), \$130 000
- 2019 CIRES, Individual Outstanding Performance Award in Science and Engineering “*For creatively  
improving and operating a set of unique atmospheric instruments to challenge and enhance process  
understanding and global climate models.*”
- 2019 NASA Group Achievement Award “*For outstanding scientific accomplishments by the ATom team in  
exploring remote swaths of the global atmosphere to improve our understanding of climate and air  
quality.*”
- 2018-2019 NASA ATom, Reducing uncertainties on pre-industrial aerosol with measurements of the pristine  
marine atmosphere, \$59 000
- 2013-2015 Marie Skłodowska-Curie Fellowship, CLOUD-TRAIN
- 2012-2013 Marie Skłodowska-Curie Fellowship, CLOUD-ITN

### Teaching and Supervision

- 2021 Supervisor - Undergraduate Summer Student Field Work, NOAA CSL
- 2021 Supervisor – CIRES research scientist, CIRES associate scientist
- 2014 Supervisor - Bachelor’s student project, *Goethe University*, Frankfurt am Main
- 2013 Supervisor - Master’s thesis, *Goethe University*, Frankfurt am Main
- 2006 Teaching English and Music in several schools in south India, students aged 4-16

### Service to Profession

- 2020 Committee member - CIRES Committee for Diversity Inclusion, CU Boulder
- 2020 Founder and director - NOAA CSL Anti-Racism Working Group
- 2019 Grant proposal review panel - US Department of Energy Office of Biological and Environmental  
Research
- 2018-present Organizer - AeroCom phase III model comparison experiment on new particle formation
- 2016-present Reviewer - *Nature Communications*, *Aerosol Science and Technology*, *Atmospheric Chemistry and  
Physics*, *Atmosphere* and *Journal of Advances in Modeling Earth Systems*
- 2015-present Science communication for general audiences: [christinajwilliamson.com/blog](http://christinajwilliamson.com/blog) and as a guest writer for  
online platforms such as NASA’s *Notes from the Field*
- 2015-2018 Founder and coordinator - NOAA CSL Early Career Group

### Meetings and Conferences

- Co-convenor of the session “*Aerosols, Clouds and Chemistry in Polar and Pristine Regions*” at the 2019  
American Geophysical Union Fall Meeting.
- Convenor of the session “*Aerosols and Clouds*” at the 2018 NASA ATom Science Team Meeting and  
“*Unexpected Discoveries*” 2017 ATom Science Meeting
- Invited presentations at 2 international conferences and 6 universities/research institutes, including 2019  
American Geophysical Union Fall Meeting, and keynote at 2018 AeroCon/AeroSat workshop.

## 2 Christina Williamson – Curriculum Vitae

- First author presentations at 15 international conferences, including the 2019 European Aerosol Conference, the 2018 International Aerosol Conference and the 2018 American Meteorological Society annual meeting.

### Field and Chamber Studies

- 2019-2020 US National Science Foundation Asian summer monsoon Chemical and Climate Impacts Project (ACCLIP), Instrument Principle Investigator
- 2016-2018 NASA Atmospheric Tomography Mission (ATom)
- 2014 NUcleation CLoud and Aerosol Characterization Experiment (NUCLACE), Jungfraujoch High Alpine Research Station
- 2012-2015 Comics Leaving OUtdoor Droplets (CLOUD) at the European Center for Nuclear Research (CERN)

### Instrument Development and Experimental Design

- 2019-2020 Adapting instrumentation to measure at higher altitudes and meet new certification requirements
- 2015-2018 Design and execution of a system to operate multiple particle counting and sizing instruments on an aircraft platform, including in-flight calibration, trapping vapors in instrument exhaust lines and minimizing inlet sampling losses
- 2016-2018 Improvement and characterization of two custom built instruments for high time-resolution measurement of aerosol size distributions from 2-60 nm on aircraft platforms
- 2015-2017 Design and execution of ultra-fine aerosol generation systems
- 2013-2015 Organization and execution of experiments on the CLOUD chamber to understand aerosol nucleation and growth in a variety of conditions
- 2012-2015 Improvement and characterization of two diethylene-glycol condensation particle counters for detection of particles starting a 1.7 nm diameter

### Other Relevant Experience

- 2011 Volunteer work designing and building shelters and sanitation facilities following an earthquake, Pisco, Peru
- 2010 CERN summer student, 13-week program of high energy physics lectures and conducting research on particle accelerators, Geneva, Switzerland
- 2009 Oxford University Physics Department summer internship in accelerator science, modeling interactions of fundamental particles, Oxford, UK
- 2008 Software development internship, Tessella, Abingdon, UK

### Mobility

- 2015-present Research Scientist, NOAA/CU Boulder, Colorado, USA
- 2014 Secondment with Richard Flagan, California Institute of Technology, California, USA
- 2012-2015 Marie Curie PhD Student, Goethe University of Frankfurt am Main, Germany
- 2006-2011 Undergraduate Masters, University of Oxford, UK

### Languages

- Fluent English
- Conversational French, German, Spanish